



National Highway Traffic Safety Administration

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

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U.S. Department of Transportation
National Highway Traffic Safety
Administration

CASE SUMMARY

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

PSU 11

CASE NO. 137F

TYPE OF ACCIDENT <u>Car sideswiped</u> Jersey barrier

A. DESCRIPTION OF THE ACCIDENT SEQUENCE AND ACCIDENT PECULIARITIES

(Provide a summary of the accident sequence as well as any particular event of the accident that is noteworthy. Injury mechanism and vehicle crashworthiness is the focus, not driver culpability. Do not include any personal identifiers.)

The 1988 Saab 900 was heading eastbound on the urban, two lane raodway when the driver evidently fell asleep and rode off the left side of the roadway and struck the cement Jersey barrier at a shallow, sideswiping angle. The vehicle actually rode up the barrier, and as it did so the driver, who had his left elbow/arm protruding through the left window struck the barrier. As the car descended the barrier the driver slammed on the brakes and cranked the wheel to the right-putting the car into a sharp clockwise yaw. At this time the left rear portion of the car struck the median again. The car than rolled across the three lanes(ramp) and came to rest on its wheels in the grassy area off roadway. The restraine driver sustained an abraided elbow, and sought medical treatment the next The car was towed and subsequently totalled. The car held up very well, with only slight roof crush. The hatch latch and hinges failed, but no potential safety bulletin has been filed due to the high speed of this crash and the overall performance of the body. The driver had on both the automatic shoulder and manual belt.

B. VEHICLE PROFILE(S)						
	Class			Most Severe Damage Based on Vehicle Inspection		
Vehicle No.	of Vehicle	Year/Make/Model	Damage Plane	Severity Description	Component Failure	
01	Subcompact	1988 Saab 900	Left	Moderate	NONE Latch, hinge door failures	

DO NOT SANITIZE THIS FORM

	C. PERSON PROFILE(S)						
Vehicle		Seat	Restraint		Most S (TO BE COMPLE	Severe	Injury ZONE CENTER)
No.	Role	Position	Use	Body Region	Injury Type	AIS	Injury Source
01	Driver	F-Left	L&Shoulde	r Elbow	abrasim		NEWJERSEY BARRIER
	·						

Body Region

Abdomen Ankle—foot Arm (upper)

Back-thoracolumbar spine Chest

Elbow Face Forearm Head – skull Knee

Leg (lower)
Lower limbs(s) (whole or unknown

part)

Neck-cervical spine

Pelvic—hip Shoulder Thigh

Upper limb(s) (whole or unknown

part) Whole body Wrist—hand Brain
Ears
Eye
Heart
Kidneys
Liver
Mouth
Noise

Pulmonary-lungs

Spleen

Thyroid, other endocrine gland

Vertebrae

Injury Type

Abrasion
Amputation
Avulsion
Burn
Concussion
Contusion
Crush

Detachment, separation

Dislocation Fracture

Fracture and dislocation

Laceration Other

Perforation, puncture

Rupture Sprain Strain

Total severance, transection

Unknown

Abbreviated Injury Scale

(1) Minor injury

(2) Moderate injury (3) Serious injury

(4) Severe injury

(5) Critical injury

(6) Maximum (untreatable)

(7) Injured, unknown severity

DO NOT SANITIZE THIS FORM

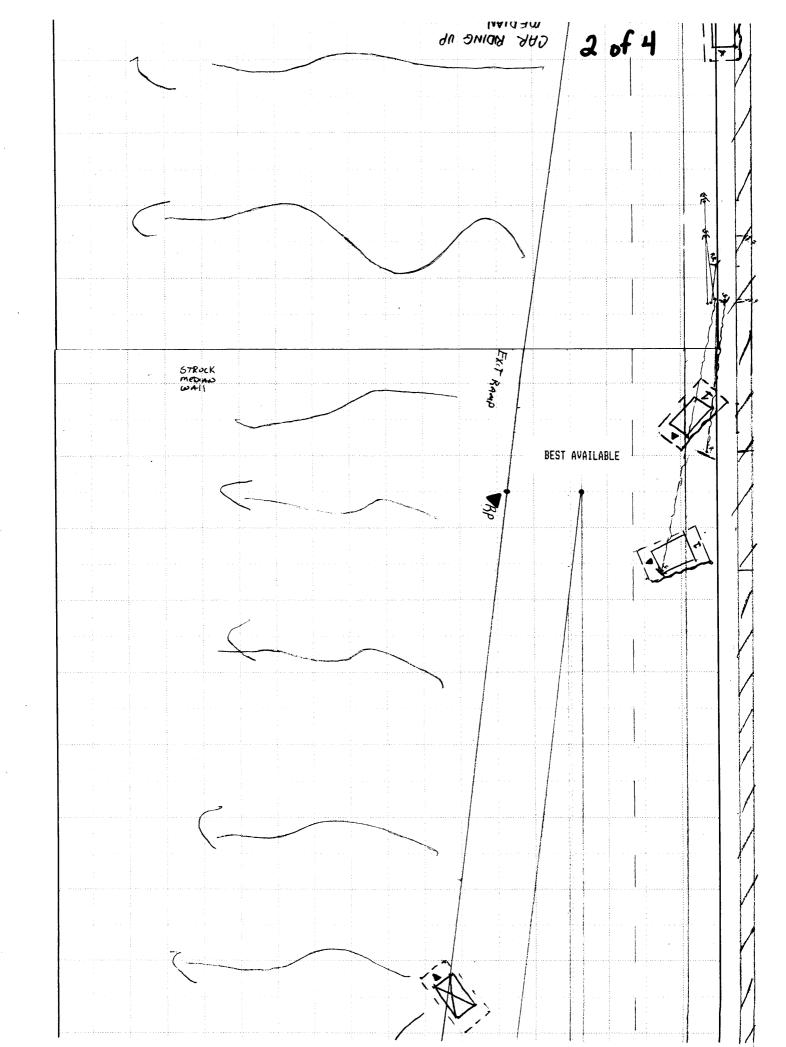
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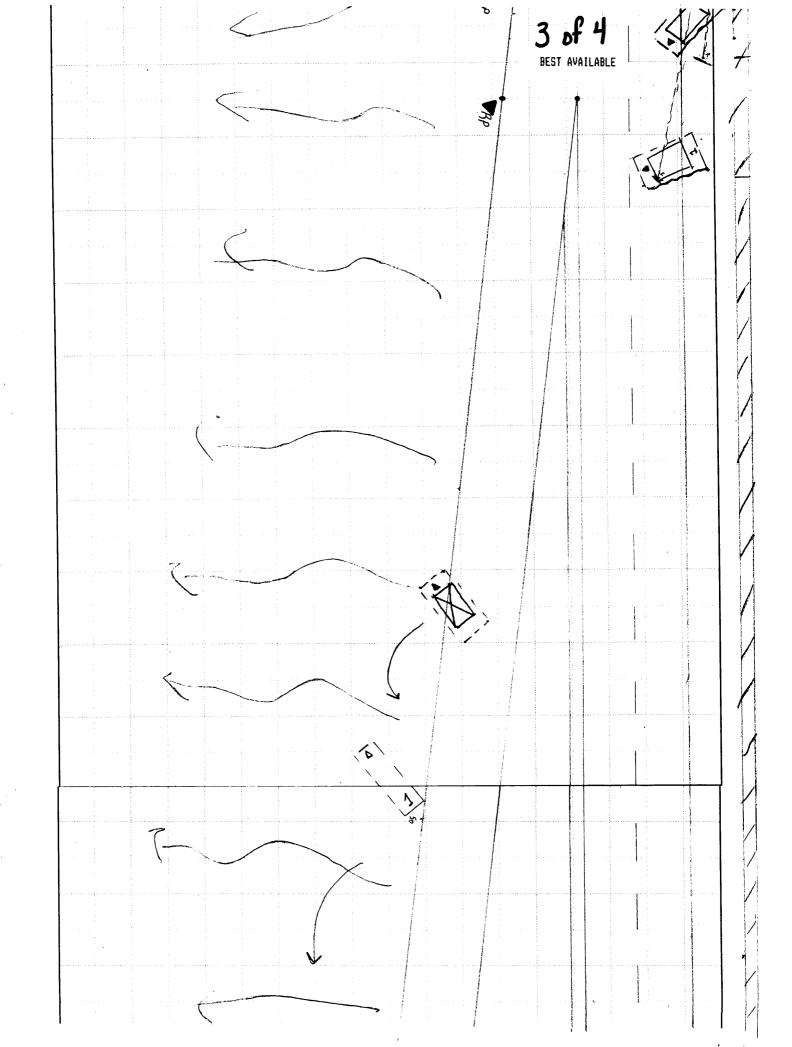
U.S. Department of Transportation

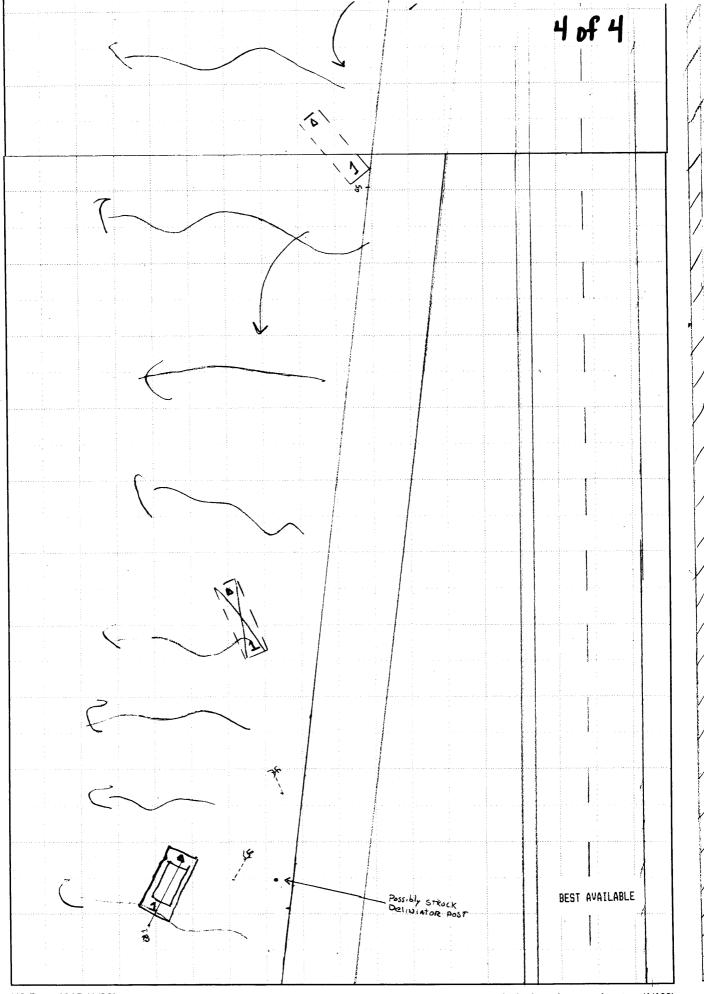
ACCIDENT COLLISION DIAGRAM

BEST AVAILABLE

National Highway Traffic Safety Administration NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM Indicate 1/250 Case Number—Stratum North 1-187F WEDIYN CAR RIDING UP STRUCK MEDIAN WALL









ACCIDENT COLLISION MEASUREMENT TABLE

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety

Administration **Primary Sampling Unit Number** Case Number—Stratum **ACCIDENT COLLISION DIAGRAM** LEVEL I LEVEL II (Cont'd) **CRASH DATA** PHYSICAL EVIDENCE ABSENT physical evidence is present: VEH. #1 VEH. #2 VEH. #3 To be accomplished when there is no document reference point and reference physical evidence present at the scene: line relative to physical features present at the scene **Heading Angle** approximate vehicle orientation at impact and final rest * scale documentation of all accident induced physical evidence * applicable road/roadway delineation (e.g., Surface Type curbs/edge lines, lane markings, median * scaled documentation of all roadside markings, pavement markings, etc.) objects contacted Surface applicable traffic controls (e.g., speed * roadway surface type and condition of Condition applicable roadways north arrow placed on diagram grade measurements for all applicable Grade (v/h) roadways and at location of rollover Measurement sketch required (between impact and final rest) scaled representations of the vehicle(s) at LEVEL II pre-impact, impact, and final rest based PHYSICAL EVIDENCE PRESENT upon either: Grade (v/h) Measurement in addition to the level I tasks noted above, a) physical evidence, or (at location of the following must be accomplished when rollover initiation) b) reconstructed accident dynamics Reference line: Spoolway **Distance and Direction** Distance and Direction Item from Reference Point from Reference Line 92. QE 98.5E 4.05

	Distance and Direction	Distance and Direction
Item	from Reference Point	from Reference Line
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		C
(D)		
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93 - Went out again



U.S. Department of Transportation National Highway Traffic Safety Administration

ACCIDENT COLLISION MEASUREMENT TABLE

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number	Case Num	ber – Stratu	m <u>/3</u> :	ZE	
LEVEL I PHYSICAL EVIDENCE ABSENT To be accomplished when there is no physical evidence present at the scene: "epproximate vehicle orientation at impact and finel real." "explicable read/reaching delineation less carbe/adoe lines, lane markings, median markings, pevement merkings, stol! "applicable traffic controls (e.g., speed limit) "north errow plead on diagram "stetch required LEVEL II PHYSICAL EVIDENCE PRESENT In addition to the Lavel I tasks noted	LEVEL II (Cont'd) eccomplished when physical evidence is present: "document reference point and reference line relative to physical features present at the scene. "scaled documentation of all accident indicated physical evidence. "scaled documentation of all roadside objects contacted. "roadway surface type and condition of applicable roadways. "grads measurements for all applicable roadways. "scaled representations of the vehicle(s) at pre-impact, impact, and final road based upon either: a) physical evidence, or	Heading Angle Surface Type Surface Condition Grade Measurement (v/h)		VEH. #3	
Reference Point: #3-Bg A	Distance and Dinfrom Reference	rection	Distance and Dir		
Shrike beg Ends By RF By RR	6.0M 16.3M 20.8M	E	2.15 1.55		
By RR Eny RF By LF Me LF	20.8ME 234 E 23.4E 18.7E 23.2 23.2 33.8 42		1.95		
End LR	23.2 33.8 42		.1/ 2.1 5.2 S		

HS Form 431A (1/91)

Item	Distance and Direction from Reference Point	Distance and Direction from Reference Line
		The Market Bridge Line
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National Highway Traffic Safety Administration	ACCIDEN	NT FORM	NATIC	NAL ACCIDENT SAI	
Primary Sampling Unit Number	//	SP	ECIAL STUDIES	S - INDICATO	RS
2. Case Number - Stratum	137F	that has	/) each special s been completed; studies and 0 for	code 1 for th	e checked
IDENTIFICATION	N	checked	•		
Number of General Vehicle Forms Submitted	01	6s	S14 Fatal AOPS		
4. Date of Accident		7S	S15 Administrativ	ve Use	0
(Month, Day, Year)	<u> </u>	8S	S16		
5. Time of Accident Code reported military time of		9S	S17		0
NOTE: Midnight = 2400 Unknown = 9999		10s	S18		0
			NUMBER O	F EVENTS	
			er of Recorded Eve s Accident	ents	03
		B.	the number of events accident.	nts which occu	rred OZ
	ACCIDEN	T EVENTS	8		
For each event that occurred in the involved vehicle or object on the right		owest numb	ered vehicle in the	left columns and	d the other
Accident Event Sequence Vehicle Number Number	Class Of	General Area of Damage	Vehicle Number or Object Contacted	Class Of Vehicle	General Area of Damage
	w8 = 252				
12. <u>0</u> <u>1</u> 13. <u>O 1</u>	14. <u>0</u> <u>1</u> 1	5. <u>F</u>	16. <u>54</u>	17. <u>0</u>	18. <u>O</u>
19. <u>0 2 20. <u>0</u> <u>1</u></u>	21. 01	2. <u>×</u> F	<u> 23. <u>5</u> <u>4</u></u>	24. 00	25.
26. <u>0</u> \$2 27. <u>0</u> <u>1</u>	28. 0 1	29. <u>T</u>	30. <u>3</u> <u>1</u>	31. <u>O</u> <u>O</u>	32. <u>//</u>
33. <u>0 4</u> 34	35 3	86	37	38	39
40. <u>0 5</u> 41	42 4	13.	44	45	46

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

CODES FOR CLASS OF VEHICLE

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase < 254 cm)
- (02) Compact (wheelbase ≥ 254 but < 265 cm)
- (03) Intermediate (wheelbase ≥ 265 but < 278 cm)
- (04) Full size (wheelbase ≥ 278 but < 291 cm)
- (05) Largest (wheelbase ≥ 291 cm)
- (09) Unknown passenger car size
- (11) Compact utility vehicle
- (12) Large utility vehicle (≤ 4,500 kgs GVWR)
- (13) Passenger van (≤ 4,500 kgs GVWR)
- (14) Other van (≤ 4,500 kgs GVWR)
- (15) Pickup truck (≤ 4,500 kgs GVWR)
- (18) Other truck ($\leq 4,500 \text{ kgs GVWR}$)
- (19) Unknown light truck type
- (20) School bus
- (21) Other bus
- (22) Truck (> 4,500 kgs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trailer(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

CODES FOR GENERAL AREA OF DAMAGE (GAD)

CDS APPLICABLE AND OTHER VEHICLES

TDC APPLICABLE VEHICLES

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back
- (T) Top
- (U) Undercarriage
- (9) Unknown

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back of unit with cargo area (rear of trailer or straight truck)
- (D) Back (rear of tractor)
- (C) Rear of cab
- (V) Front of cargo area
- (T) Top
- (U) Undercarriage
- (9) Unknown

CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

(01-30) - Vehicle Number

Noncollision

- (31) Overturn rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):
- (35) Noncollision injury
- (38) Other noncollision (specify):
- (39) Noncollision details unknown

Collision With Fixed Object

- (41) Tree (≤ 10 cm in diameter)
- (42) Tree (> 10 cm in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

- (50) Pole or post (≤ 10 cm in diameter)
- (51) Pole or post (> 10 cm but ≤ 30 cm in diameter)
- (52) Pole or post (> 30 cm in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (includes guardrail) (specify):

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):
- (69) Unknown fixed object

Collision with Nonfixed Object

- (71) Motor vehicle not in-transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance
- (75) Vehicle occupant
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (88) Other nonfixed object (specify):
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object

	age 2
OCCUPANT RELATED	24. Rollover
16. Driver Presence in Vehicle (0) Driver not present	(0) No rollover (no overturning)
(1) Driver present	Rollover (primarily about the longitudinal axis)
(9) Unknown	(1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns
17. Number of Occupants This Vehicle	(3) Rollover, 3 quarter turns (4) Rollover, 4 or more quarter turns (specify):
(00-96) Code actual number of occupants for this vehicle	2 Complete rolls!
(97) 97 or more (99) Unknown	(5) Rollover-end-over-end (i.e., primarily
(co) chalowii	about the lateral axis)
18. Number of Occupant Forms Submitted 21	(9) Rollover (overturn), details unknown
VEHICLE WEIGHT ITEMS	OVERRIDE/UNDERRIDE (THIS VEHICLE)
19. Vehicle Curb Weight	25. Front Override/Underride (this Vehicle)
10 kilograms. (045) Less than 450 kilograms	26. Rear Override/Underride (this Vehicle)
(610) 6,100 kilograms or more (999) Unknown	(0) No override/underride, or
, lbs X .4536 =, kgs	not an end-to-end impact
Source:	Override (see specific CDC) (1) 1st CDC
Source.	(2) 2nd CDC
20. Vehicle Cargo Weight Onearest O, O O	(3) Other not automated CDC (specify):
10 kilograms. (000) Less than 5 kilograms	Underride (see specific CDC)
(450) 4,500 kilograms or more (999) Unknown	(4) 1st CDC (5) 2nd CDC
, lbs X .4536 = , kgs	(6) Other not automated CDC (specify):
RECONSTRUCTION DATA	
	(7) Medium/heavy truck or bus override (9) Unknown
21. Towed Trailing Unit (0) No towed unit	(6, 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
(1) Yes—towed trailing unit (9) Unknown	HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V
22. Documentation of Trajectory Data	Values: (000)-(359) Code actual value
for This Vehicle (0) No	(997) Noncollision (998) Impact with object
(1) Yes	(999) Unknown
23. Post Collision Condition of Tree or Pole	27. Heading Angle For This Vehicle 998
(For Highest Delta V) (0) Not collision (for highest delta V) with	28. Heading Angle For Other Vehicle 9998
tree or pole (1) Not damaged	
(2) Cracked/sheared (3) Tilted < 45 degrees	
(4) Tilted ≥45 degrees (5) Uprooted tree	
(6) Separated pole from base (7) Pole replaced	
(8) Other (specify):	
(9) Unknown	!

OTHER DATA	61. Rollover Initiation Object Contacted ${\mathcal J}{\mathcal I}$
56. Driver's Zip Code	
(00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane
57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify):	(3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown 63. Direction of Initial Roll
58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance (7) Fire truck or car	 (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction PRECRASH DATA
(8) Other (specify):(9) Unknown	64. Pre-Event Movement (Prior to
ROLLOVER DATA	Recognition of Critical Event)
If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.	 (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane
59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type	(07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
60. Location of Rollover Initiation	(98) No driver present (99) Unknown
(0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (9) Unknown	(33) GIRHOWII

PS2, 11-137 F V-01

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (57) Fence (01-30) - Vehicle Number (58) Wall (59) Building Noncollision (60) Ditch or culvert (31) Turn-over - fall-over (61) Ground (33) Jackknife (62) Fire hydrant (63) Curb Collision With Fixed Object (64) Bridge (41) Tree (≤ 10 cm in diameter) (68) Other fixed object (specify): (42) Tree (> 10 cm in diameter) (43) Shrubbery or bush (69) Unknown fixed object (44) Embankment **Collision with Nonfixed Object** (45) Breakaway pole or post (any diameter) (71) Motor vehicle not in-transport (76) Animal (77) Train (78) Trailer, disconnected in transport Nonbreakaway Pole or Post (50) Pole or post (≤ 10 cm in diameter) (51) Pole or post (> 10 cm but \leq 30 cm in (88) Other nonfixed object (specify): diameter) (52) Pole or post (> 30 cm in diameter) (89) Unknown nonfixed object (53) Pole or post (diameter unknown) (98) Other event (specify): (54) Concrete traffic barrier (55) Impact attenuator (99) Unknown event or object

(56) Other traffic barrier (includes guardrail)

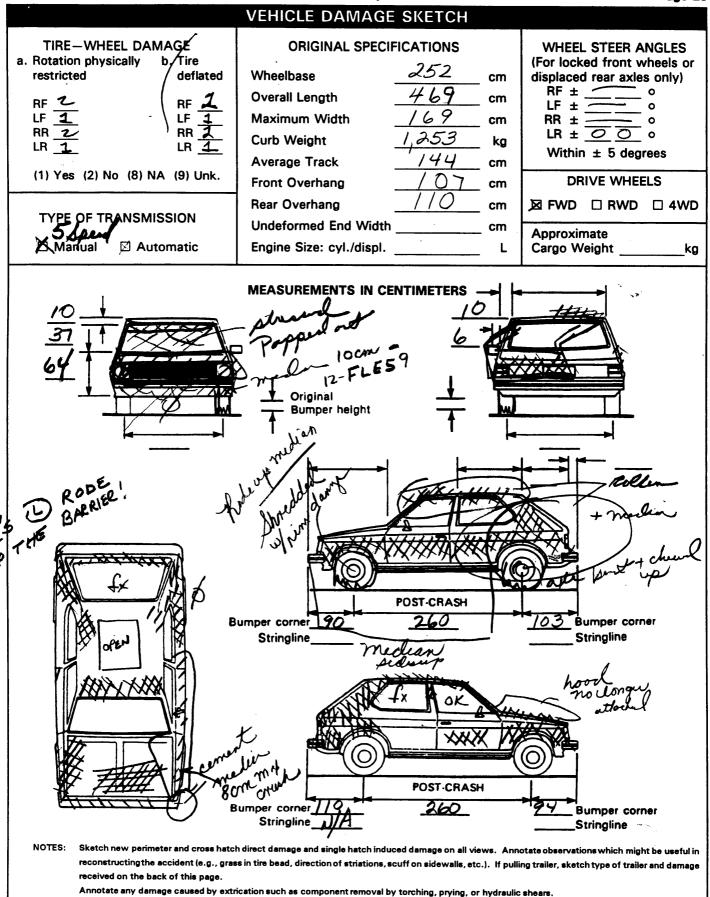
(specify):



ational Highway Traffic Safety dministration		EX	EXTERIOR VEHICLE FORM				NA'	NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM				
1. Primar	y Sampling	Unit Nu		_/_	/ 3	. Vehicl	e Numb	er			\mathcal{C}	21
2. Case I	Number - Str	atum		<u> 3 7 F</u>	_	W	0 W	1 3d	e gree	4		
			\	VEHICLE (IDENTI	FICAT	ION					
VIN Y	<u> 53 A</u>	L	35L	11	3				-	Model Y	ear <u>8</u>	8
Vehicle Ma	ike (specify):	_5A	AB			Vehicle	Model (specify):	900	TUI	RBO	
LOCATOR												
Lecate the end of the damage with respect to the vehicle longitudinal center line or bumper corner for end impacts or an undamaged axle for side impacts.												
Specific I	mpact No.		Location	of Direct D	amage			Lo	cation	of Field	L	
1-2		who	le Rsi	de da	mog	& by	sides	upny	med	in		
3					U	0		<u>' /</u>				
			CRUS	SH PROFI	LE IN	CENTI	VIETER	S				
NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space).												
Measure and document on the vehicle diagram the location of maximum crush.												
	Measure C1 mpacts.	to C6 fr	om driver to	passengei	r side in	front or	rear im	pacts ar	nd rear t	o front	in side	
t	ree space va he individual ide taper, et	C locat	tions. This	may include e for each _n e	e the fol C-measu	lowing: rement	bumper and ma	lead, be	umper to	aper, sid		
ι	Jse as many	lines/co	olumns as no		مالار (C describ			2 FL	e 5 I			
Specific	1		Direct D									
Impact Number	Plane of In C-Measure	ments	Width (CDC)	Max Crush	Field L	C ₁	C ₂	C₃	C₄	C ₆	C _e	±D
1-2	DISIL		10cm)8		MA	SKEI	D				
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ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	<u>99.1</u>	inches	x 2.54	=	252 cm
Overall Length	<u> 184.5</u>	inches	x 2.54	=	<u> 469</u> cm
Maximum Width	<u>66.5</u>	inches	x 2.54	=	<u>/ 69</u> cm
Curb Weight	<u>2,763</u>	pounds	x .4536	=	<u>1,253</u> kg
Average Track	<u> </u>	inches	x 2.54	=	<u>/ 4 4 cm</u>
Front Overhang	·_	inches	x 2.54	=	<u>/ O 7</u> cm
Rear Overhang		inches	x 2.54	=	// <u></u> cm
Undeformed End Width	<u> </u>	inches	x 2.54	=	cm
Engine Size: cyl./displ	•	СС	x .001	=	L
		CID	x .0164	=	L



CDC WORKSHEET CODES FOR OBJECT CONTACTED (01-30) - Vehicle Number (57) Fence (58) Wall Noncollision (59) Building (31) Overturn - rollover (60) Ditch or culvert (32) Fire or explosion (61) Ground (33) Jackknife (62) Fire hydrant (34) Other intraunit damage (specify): (63) Curb (64) Bridge (35) Noncollision injury (68) Other fixed object (specify): (38) Other noncollision (specify): (69) Unknown fixed object (39) Noncollision - details unknown Collision with Nonfixed Object Collision With Fixed Object (71) Motor vehicle not in-transport (41) Tree (≤ 10 cm in diameter) (72) Pedestrian (42) Tree (> 10 cm in diameter) (73) Cyclist or cycle (43) Shrubbery or bush (74) Other nonmotorist or conveyance (44) Embankment (75) Vehicle occupant (45) Breakaway pole or post (any diameter) (76) Animal (77) Train Nonbreakaway Pole or Post (78) Trailer, disconnected in transport (50) Pole or post (≤ 10 cm in diameter) (88) Other nonfixed object (specify): (51) Pole or post (> 10 cm but \leq 30 cm in (89) Unknown nonfixed object diameter) (52) Pole or post (> 30 cm in diameter) (53) Pole or post (diameter unknown) (98) Other event (specify): (54) Concrete traffic barrier (99) Unknown event or object (55) Impact attenuator (56) Other traffic barrier (includes guardrail) (specify):

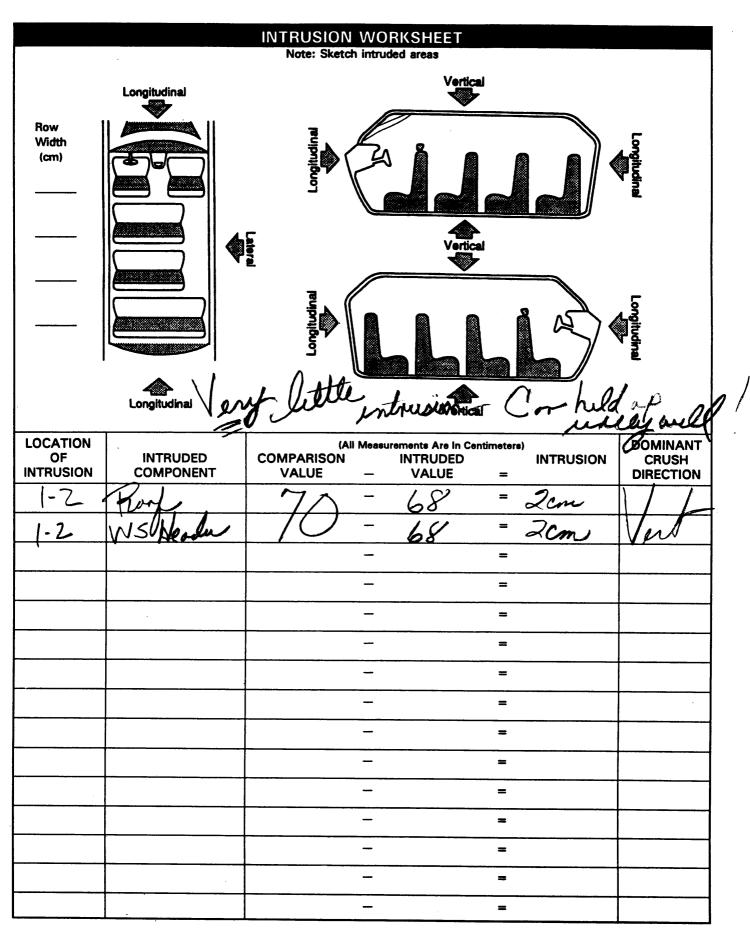
(4)(5) Accident (1)(2)Specific Specific (6) **Event** Direction Incremental (3) Longitudinal Vertical or Type of (7)Sequence Object of Force Value of Deformation or Lateral Lateral Damage Deformation Number Contacted (degrees) Shift Location Location Location Distribution Extent 6

DEFORMATION CLASSIFICATION BY EVENT NUMBER



National	Highway	Traffic	Safety
Administ	ration		-

Administration INTERIOR VE	HICLE FORM NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number	GLAZING
	Glazing Damage from Impact Forces
2. Case Number - Stratum	15. WS 416. LF 017. RF 08. LR 019. RR 6
3. Vehicle Number	20. BL 21. Roof 22. Other
INTEGRITY	
4. Passenger Compartment Integrity 98	(0) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces
4. Passenger Compartment Integrity (00) No integrity loss	(3) Glazing in place and holed from impact forces
•	(4) Glazing out-of-place (cracked or not) and not holed from impact forces
Yes, Integrity Was Lost Through (01) Windshield	(5) Glazing out-of-place and holed from impact forces
(O2) Door (side)	(6) Glazing disintegrated from impact forces (7) Glazing removed prior to accident
(03) Door/hatch (back door) RB WWW	(8) No glazing
Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof (05) Roof glass (06) Side window (07) Rear window (backlight)	(9) Unknown if damaged
(06) Side window	
(07) Rear window (backlight) (08) Roof and roof glass	Glazing Damage from Occupant Contact
(09) Windshield and door (side)	23. WS 24. LE 25. RF 26. LR 27. RR
(10) Windshield and roof	28. BL 29. Roof 30. Other
(11) Side and rear window (side window and backlight) (12) Windshield and side window	26. BL 29. ROOT 230. Other
(13) Door and side window	(0) No occupant contact to glazing or no glazing
(98) Other combination of above (specify):	(1) Glazing contacted by occupant but no glazing damage (2) Glazing in place and cracked by occupant contact
(99) Unknown	(3) Glazing in place and holed by occupant contact
(66)	(4) Glazing out-of-place (cracked or not) by occupant
	contact and not holed by occupant contact (5) Glazing out-of-place by occupant contact and holed by
Door, Tailgate or Hatch Opening	occupant contact
	(6) Glazing disintegrated by occupant contact (9) Unknown if contacted by occupant
5. LF 6. RF 7. LR 8. RR 9. TG/H 2	
(O) No door/gate/hatch	If No Glazing Damage <i>And</i> No Occupant Contact or No Glazing, Then Code IV31 Through IV46 As Ø
(1) Door/gate/hatch remained closed and operational (2) Door/gate/hatch came open during collision	1 - 1 - 1 - 1 - 1 - 1
(3) Door/gate/hatch jammed shut	Type of Window/Windshield Glazing
(8) Other (specify):	grame zappina de
(9) Unknown	31. WS_1 32. LF_33. RF_34. LR_35. RR_2
•	36. BL 2 37. Roof 38. Other
Demons/Follows Associated with Barry Tally and I all	(0) No glazing contact and no damage, or no glazing
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø	(1) AS-1 — Laminated (2) AS-2 — Tempered
	(3) AS-3 — Tempered-tinted
10. LF	(4) AS-14 — Glass/Plastic (8) Other (specify);
(O) No door/gate/hatch or door not opened	(9) Unknown
Door, Tailgate or Hatch Came Open During Collision	(a) Ouknown
(1) Door operational (no damage)	Window Program Clasics Status
(2) Latch/striker failure due to damage (3) Hinge failure due to damage	Window Precrash Glazing Status
(4) Door structure failure due to damage	39. WS / 40. LF / 41. RF / 42. LR / 43. RR /
(5) Door support (i.e., pillar, sill, roof side rail,	44. BL / 45. Roof 4 6. Other
etc.) failure due to damage (6) Latch/striker and hinge failure due to damage	
(8) Other failure (specify):	(0) No glazing contact and no damage, or no glazing (1) Fixed
(9) Unknown	(2) Closed
	(3) Partially opened (4) Fully opened
	(9) Unknown



OCCUPANT AREA INTRUSION

Note: If no intrusions, leave variables IV47-IV86 blank

Note	: If no intrusion	ns, leave variab	ies IV47-I\ 	/86 blank.
	Location of Intrueion		Megnitude of Intrusion	Dominant Crush Direction
1st	47	48	49	50
2nd	51	52	53	54
3rd	55	56	/ 57	58
4th	59	60.	<i>[</i> 61	62
5th	63	64.		66
6th	67.	68.	69	70
7th	71	72	73	74
8th	75	76	77	78
9th	79	80	81	82
10th	83	84	85	86

LOCATION OF INTRUSION

Front Seat **Fourth Seat** (11) Left (41) Left (12) Middle (42) Middle (13) Right (43) Right Second Seat

(21) Left (22) Middle (23) Right

(97) Catastrophic (98) Other enclosed area (specify)

Third Seat (31) Left (32) Middle (33) Right

(99) Unknown

INTRUDING COMPONENT

Interior Components

(01) Steering assembly

(02) Instrument panel left

(03) Instrument panel center (04) Instrument panel right

(05) Toe pan

(06) A (A1/A2)-pillar

(07) B-pillar

(08) C-pillar (09) D-pillar

(10) Door panel (side)

(12) Roof (or convertible top)

(13) Roof side rail

(14) Windshield

(15) Windshield header

(16) Window frame

(17) Floor pan (includes sill)

(18) Backlight header

(19) Front seat back

(20) Second seat back

(21) Third seat back

(22) Fourth seat back (23) Fifth seat back

(24) Seat cushion

(25) Back door/panel (e.g., tailgate)

(26) Other interior component (specify):

(27) Side panel - forward of the A (A2)-pillar

(28) Side panel - rear of the A (A2)-pillar

Exterior Components

(30) Hood

(31) Outside surface of this vehicle (specify):

(32) Other exterior object in the environment (specify):

(33) Unknown exterior object

(97) Catastrophic

(98) Intrusion of unlisted component(s) (specify):

(99) Unknown

MAGNITUDE OF INTRUSION

(1) ≥ 3 centimeters but < 8 centimeters

(2) ≥ 8 centimeters but < 15 centimeters

(3) ≥ 15 centimeters but < 30 centimeters

(4) ≥ 30 centimeters but < 46 centimeters

(5) ≥ 46 centimeters but < 61 centimeters

(6) ≥ 61 centimeters

(7) Catastrophic

(9) Unknown

DOMINANT CRUSH DIRECTION

(1) Vertical

(2) Longitudinal

(3) Lateral

(7) Catastrophic

(9) Unknown

(All Messurements Are in Centimeters)				
COMPARISON VALUE	SON VALUE — DAMAGE VALUE			DEFORMATION
* ***	_	——————————————————————————————————————	=	
			=	
	-		=	
	_		=	

STEERING COLUMN		22 Landing of Standing Bird (Stading
87. Steering Column Type (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column	2	93. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation Quarter Sections (01) Section A
(8) Other column type (specify): (9) Unknown		(02) Section B (03) Section C (04) Section D
(a) Olikilowii		Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Pight half of rim/spoke
88. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	<u> </u>	(08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown
	!	INSTRUMENT PANEL
89. Blank (This variable is left blank so that numbering consistency	xxx	94. Odometer Reading <u>041,000</u> kilometers—Code to the
can be maintained with the 1988-93 CDS.		nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown
90. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	XXX	25,525 miles x 1.6093 = 04 / 077 kilometers Source:
91. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	XXX	95. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown
92. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centi		96. Knee Bolsters Deformed from Occupant Contact? (0) No (1) Yes (8) Not present (9) Unknown
(15) 15 centimeters or more (98) Observed deformation cannot be (99) Unknown		97. Did Glove Compartment Door Open During Collision(s)? (0) No (1) Yes (8) Not present (9) Unknown

VEHICLE INTERIOR SKETCHES Note area of ejection/entrapment

Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

		POI	NTS	OF OC	CUPANT CONTA	СТ		
Contact	Interior Component Contacted	Occupant No. If Known	F	Body Region If (nown	Supporting Ph	iysical E	vidence	Confidence Level of Contact Point
Α	09	1	R	Knee	sculled	· · · · · · · · · · · · · · · · · · ·		1
В	20	1			house			1
С	21	1	1	chest	bowed outro	760		1
D			10)	up_	slightly de	rest		
	21	1	R)L	nec	slightly deni	red_		1
E								
F						<u></u>		
G								
Н								
ı								
J	1		+					· · · · · · · · · · · · · · · · · · ·
K			+					
L			+					
			 					
M								
N N								
(05) Stee (06) Stee of cc (07) Stee selec (08) Add deck (09) Left (10) Cent (11) Right (12) Glov (13) Knee (14) Winc of th A (A mirro eide (15) Winc of th A (A	risor ring wheel rim ring wheel hub/spol ring wheel (combine sides 04 and 05) ring column, transm stor lever, other atta on equipment (e.g., , air conditioner) instrument panel an er instrument panel at e compartment door bolster lshield including one e following: front he 1/A2)-pillar, instrum or, or steering assen	ation aission achment CB, tape and below and below r o or more asder, ant panel, ably (driver action more acti	(26) (27) (28) RIGHT: (30) (31) (32) (33) (34) (35) (36)	Left side wone or more frame, win B-pillar, or Other left side with the side side side side side side side sid	interior surface, hardware or armrests hardware or armrest 1/A2)-pillar	ROOF (50) (51) (52) (53) (54) FLOOR (56) (57)	Rear header Roof left side rail Roof right side rail Roof or convertible to Floor (including toe properties of the console most ransmission lever, inconsole Parking brake handle	(epecify): (epecify): top pen) unted including eng parking
	r enger side air bag partment cover	1	(38) INTERIO	•	window sill	(62)	Other rear object (sp	
	shield reinforced by		(40)	Seat, back	• •			
	et (specify): r front object (speci	fy):	(41)	Belt restrai	t point		CONFIDENCE LEVE	
LEFT SIDE			(43)	Other restr	aint system component		(1) Cartain	
(20) Left	side interior surface			Head restre	•	1	(1) Certain (2) Probable	
(21) Left	ding hardware or an side hardware or an A (A1/A2)-pillar		(45)		se codes "16" and "17" sustained from air bag ant covers)		(3) Possible (9) Unknown	

compartment covers)

AUTOMATIC RESTRAINTS NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. **AIR BAGS** Left Right Availability/Function Deployment R **Failure** Air Bag System Availability/Function Air Bag System Deployment Did Air Bag System Fail? (O) Not equipped/not available Not equipped/not available (0) Not equipped/not available (1) Air bag (1) Air bag deployed during accident (1) No (as a result of impact) (2) Yes (specify): Non-functional (2) Air bag deployed inadvertently just (2) Air bag disconnected (specify): prior to accident (9) Unknown (3) Air bag deployed, accident sequence (3) Air bag not reinstalled undetermined (9) Unknown (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown **AUTOMATIC BELTS** Left Right Availability/Function F Use R Type **Proper Use Failure Modes** Automatic (Passive) Belt System Proper Use of Automatic (Passive) Belt Automatic (Passive) Belt Failure Modes **Availability/Function** System **During Accident** (O) Not equipped/not available (0) Not equipped/not available/not used (0) Not equipped/not available/not in use (1) 2 point automatic belts (1) No automatic belt failure(s) (1) Automatic belt used properly (2) 3 point automatic belts (2) Automatic belt used properly with (2) Torn webbing (stretched webbing not (3) Automatic belts - type unknown child safety seat included) (3) Broken buckle or latchplate Non-functional Automatic Belt Used Improperly (4) Upper anchorage separated (4) Automatic belts destroyed or (3) Automatic shoulder belt worn under (5) Other anchorage separated (specify): rendered inoperative (9) Unknown (4) Automatic shoulder belt worn behind (6) Broken retractor back (7) Combination of above (specify): Automatic (Passive) Belt System Use (8) Other automatic belt failure (specify): (5) Automatic belt worn around more (0) Not equipped/not available/destroyed than one person or rendered inoperative (6) Lap portion of automatic belt worn (9) Unknown (1) Automatic belt in use on abdomen (2) Automatic belt not in use (manually (7) Automatic lap and shoulder belt or disconnected, motorized track automatic shoulder belt used inoperative) improperty (3) Automatic belt use unknown with child safety seat (specify): (9) Unknown (8) Other improper use of automatic belt Automatic (Passive) Belt System Type (O) Not equipped/not available (specify): Non-motorized system (9) Unknown (2) Motorized system

(9) Unknown

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		Left	Center	Right
F	Availability	3		3
R	Use	03		03
S	Failure Modes	/		
S	Availability	4	3 ,	0 , 4
% шСОZC	Use	64	00 Stacker	/00
Ň	Failure Modes	0	O WHO	0
T	Availability			
1	Use			
R	Failure Modes			
Q	Availability			
H	Use			
E R	Failure Modes			

Manual (Active) Belt System Availability

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown

- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat type unknown
- (18) Other belt used with child safety seat (specify):
- (99) Unknown if belt used

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

	CHILD CAFETY	/ CEAT FIE	ELD ACCECCAMENT
Wi	nen a child safety seat is present enter the o	ccupant's num	ELD ASSESSMENT mber in the first row and complete the column below applete a column for each child safety seat present.
Oc	ccupant Number		
1.	Type of Child Safety Seat		
2.	Child Safety Seat Orientation		
3.	Child Safety Seat Harness Usage		
4.	Child Safety Seat Shield Uasge		
5.	Child Safety Seat Tether Usage		
6.	Child Safety Seat Make/Model	Specify I	Below for Each Child Safety Seat
2.	 (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (13) Other orientation (specify): 	4 5	 Child Safety Seat Harness Usage Child Safety Seat Tether Usage Note: Options Below Are Used for Variables 3-5. (00) No child safety seat Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used Unknown if Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if child safety seat used
	Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):	6	(99) Unknown if child safety seat used 6. Child Safety Seat Make/Model (Specify make/model and occupant number)

(29) Unknown orientation

(99) Unknown if child safety seat used

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Head Restraint Type/Damage			1
I R	Seat Type	02		02
<u>s</u> [Seat Performance	l		
_'[Seat Orientation			1
s	Head Restraint Type/Damage		0	
EC	Seat Type	05	05	05
0	Seat Performance		1	1
Ď	Seat Orientation	l		
т	Head Restraint Type/Damage			
Ĥ [Seat Type			
Ŗ	Seat Performance			
D	Seat Orientation			
0	Head Restraint Type/Damage			
Ť	Seat Type			
E	Seat Performance			
R	Seat Orientation			

Head Restraint Type/Damage by Occupant at This Occupant Position

- No head restraints (0)
- (1)
- Integral no damage Integral damaged during accident
- (3) Adjustable no damage
 (4) Adjustable damaged during accident
- (5) Add-on no damage
 (6) Add-on damaged during accident
- (8) Other Specify):
- (9) Unknown

Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench
- (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

	EJECTION/ENTRAPMENT DATA						
	Complete the following if the researcher has any indication that an occupant was either ejected from or entrapped in the vehicle. Code the appropriate data on the Occpant Assessment Form.						
	CTION No [V] Yes [] cribe indications of ejection and I	oody parts in		-			
			10°	55 B	<u> </u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
		- 1814					·
						· · · · · · · · · · · · · · · · · · ·	
	Occupant Number	1					
	Ejection			,		·	
	(Note on Vehicle Interior Sketch) Ejection Area	12	\bigcap	114		·	·
	Ejection Medium	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
	Medium Status						
Ejection (1) Complete ejection (1) Partial ejection (3) Ejection, Unknown degree (9) Unknown		(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify):		(5) Integral structure (8) Other medium (specify): (9) Unknown			
	tion Area	Ejection Mo			to Impa	ct)	mediately Prior
(2) Windshield) Left front	(2) Nonfi	hatch/tailga xed roof str		(1) O (2) C	losed	
(4) Right front) Left rear	(3) Fixed glazing(4) Nonfixed glazing (specify):				itegral struc nknown	ture
) Right rear) Rear						
	TRAPMENT No 1 Yes cribe entrapment mechanism:						
					· ···	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
			·	<u> </u>			
Com	nponent(s):		=======================================				
(Not	te in vehicle interior diagram)			· · · · · · · · · · · · · · · · · · ·			



OCCUPANT ASSESSMENT FORM

Form Approved
O.M.P. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety Administration

Administration	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum $437F$	10. Occupant's Seat Position Front Seat
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 7 / inches X 2.54 = /80 centimeters	Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area
8. Occupant's Weight Code actual weight to the nearest kilogram.	(98) Other seat (specify):(99) Unknown 11. Occupant's Posture (0) Normal posture
(999)Unknown 170 pounds X .4536 = 077 kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify):
	(9) Unknown

EJECTION/EI	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): LF was dow (5) Integral structure (8) Other medium (specify): (9) Unknown	
Decupant had wendow when he appears his elbow was sampped here-	Delbow outside the comments of the barrier and perapped the barrier and perapped to car rollulalong not is the car rollulalong

RESTRAINT SYS	TEM EVALUATION
17. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(8) Other belt (specify): (9) Unknown 18. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	22. Air Bag System Deployment (O) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown
(12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used 19. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly	23. Are There Indications of Air Bag System Failure? (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts
(2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Other or automatic restraint (specify): (8) Restrained, type unknown (9) Police indicated "unknown"
20. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify):	

	HEAD RESTRAINT AN	D SI	SEAT EVALUATION
at TI (0) (1) (2) (3) (4) (5) (6) (8) (9) Seat (00) (01) (02) (03) (04) (05) (06) (07) (08) (09)	d Restraint Type/Damage by Occupant his Occupant Position No head restraints Integral—no damage Integral—damaged during accident Adjustable—no damage Adjustable—damaged during accident Add-on—no damage Add-on—damaged during accident Other (specify): Unknown Type (this Occupant Position) Occupant not seated or no seat Bucket Bucket with folding back Bench Bench with separate back cushions Bench with folding back(s) Split bench with separate back cushions Split bench with folding back(s) Pedestal (i.e., column supported) Other seat type (specify): Box mounted seat (i.e., van type) Unknown	27.	7. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify): (7) Combination of above (specify): (8) Other (specify): (9) Unknown

	CHILD SA	FETY SEAT
28.	Child Safety Seat Make/Model (000) No child safety seat	31. Child Safety Seat Harness Usage
	Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):	32. Child Safety Seat Shield Usage
	(998) Unknown make/model	33. Child Safety Seat Tether Usage
	(999) Unknown if child safety seat used	Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat
29.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify):	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether
	(8) Unknown child safety seat type (9) Unknown if child safety seat used	added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used
30.	Child Safety Seat Orientation (00) No child safety seat	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used
	Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing	(22) Harness/shield/tether used (29) Unknown if harness/shield/tether used
	(08) Other orientation (specify):	(99) Unknown if child safety seat used
	(09) Unknown orientation	
	Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing	
	(18) Other orientation (specify):	
	(19) Unknown orientation	
	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing	
	(28) Other orientation (specify):	
	(29) Unknown orientation	
	(99) Unknown if child safety seat used	

INJURY CONSEQUENCES	38. Working Days Lost
34. Injury Severity (Police Rating)	Code the number of days (up through 60) that the occupant
(0) O - No injury	lost from work due to the accident
(1) C - Possible injury	(00) No working days lost
(2) B - Nonincapacitating injury	(61) 61 days or more
(3) A - Incapacitating injury	(62) Fatally injured (97) Not working prior to accident
(4) K - Killed	(99) Unknown
(5) U - Injury, severity unknown	(00) Chalowii
(6) Died prior to accident	
(9) Unknown	STOP - GO TO VARIABLE 44 ON PAGE 7
,	MARIARIES OF THROUGH AS ARE
35. Treatment - Mortality	VARIABLES 39 THROUGH 43 ARE COMPLETED BY THE ZONE CENTER
(0) No treatment	COM LETED DE THE LONE OF SER
(1) Fatal	
(2) Fatal - ruled disease (specify):	39. Time to Death
	Code number of hours from time of
Nonfatal	accident to time of death up through 24
(3) Hospitalization	hours. If time of death is greater than 24
(4) Transported and released	hours, code number of days. (Note: 1 day =
(5) Treatment at scene - nontransported	31, 2 days = 32, n days = 30 +n up
(6) Treatment later	through 30 days = 60) (00) Not fatal
(8) Treatment - other (specify):	(96) Fatal - ruled disease
	(99) Unknown
(9) Unknown	
	40. 1st Medically Reported Cause of Death
36. Type Of Medical Facility (for Initial Treatment)	40. 1st Medically Reported Cause of Death
(0) Not treated at a medical facility	41. 2nd Medically Reported Cause of Death
(1) Trauma center	
(2) Hospital	42. 3rd Medically Reported Cause of Death
(3) Medical clinic	Code the Occupant Injury from line
(4) Physician's office (5) Treatment later at medical facility	number(s) for the medically reported
(8) Other (specify):	injury(s) which reportedly contributed to
(o) Other (specify).	this occupant's death
(9) Unknown	(00) Not fatal or no additional causes (97) Other result (includes fatal ruled
	disease) (specify):
↑ ↑	, (open,),
37. Hospital Stay	(99) Unknown
(00) Not HospitalizedCode the number of days (up through 60)	
that the occupant stayed in hospital.	
(61) 61 days or more	43. Number of Recorded Injuries for This Occupant
(99) Unknown	Code the actual number of
	injuries recorded for this occupant.
	(00) No recorded injuries
	(97) Injured, details unknown
	(99) Unknown if injured

AUTOMATIC BEL	T SYSTEM	48. Automatic (Passive) Belt Failure Modes /
44. Automatic (Passive) Belt Systemation (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type units automatic belts	nknown	During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):
(4) Automatic belts destroy inoperative (9) Unknown	ed or rendered	(7) Combination of above (specify): (8) Other automatic belt failure (specify): (9) Unknown
45. Automatic (Passive) Belt Sy: (0) Not equipped/not available rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use disconnected, motorized (specify): (3) Automatic belt use unknown	e (manually track inoperative)	49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):
46. Automatic (Passive) Belt Sy (0) Not equipped/not availal (1) Non-motorized system (2) Motorized system (9) Unknown	stem Type	(9) Unknown STOP - VARIABLES 50 THROUGH 52 ARE COMPLETED BY THE ZONE CENTER
47. Proper Use of Automatic (Pa Belt System (0) Not equipped/not availat (1) Automatic belt used pro (2) Automatic belt used pro child safety seat Automatic Belt Used Imprope (3) Automatic shoulder belt (4) Automatic shoulder belt (5) Automatic belt worn are one person (6) Lap portion of automatic on abdomen (7) Automatic lap and shoul automatic shoulder belt with child safety seat (s) (8) Other improper use of a (specify): (9) Unknown	perly with perly perly with perly worn under arm worn behind back bund more than belt worn der belt or used improperly pecify):	TRAUMA DATA 50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured 51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 52. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of theHCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
ARE ALL APPLICAE WITH INITIAL SUBI	BLE MEDICAL RECOI	RDS INCLUDED NO [YES []
UPI	DATE CANDIDATE?	NO / YES[]



Administration

U.S. Department of Transportation
National Highway Traffic Safety

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

2. Case Number - Stratum

3. Vehicle Number

4. Occupant Number

5. 1

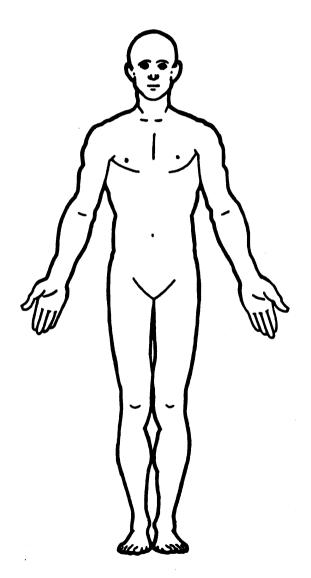
INJURY DATA

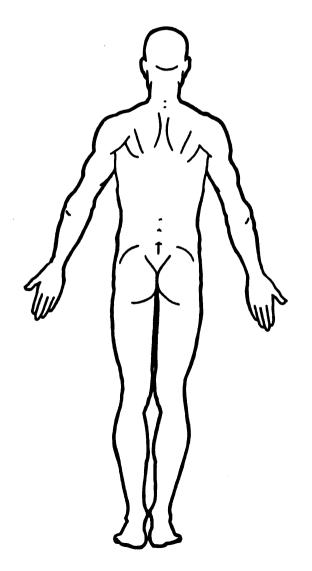
Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

		0.I.CA.I.S							Injury		Occupant
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number
	u. 7	6.7	7.9	.02	. <u>0</u> 2	10	11.2	12. <u>85</u>	13, 🚣 1	4	15, <u>O</u> Ĉ
2nd	16	17	18 19	·	20	21	22	23	24 2	25 (26
3rd	27	28	29 30	·	31	32	33,	34	35 3	16 :	37
4th	38	39	410 41	·	42	43	44	45	46	17	18
5th	49	50	51. <u> </u>		53	54	55	56	57. <u> </u>	58 !	59,
6th	60,	61	62 63	·	64	65	66	67	68	19	70
7th	71	72	73 74	·	75	76	77	78	79 8	10	31
8th	82	83	84 85		86	87	88	89	90 \$	n :	
9th	93	94	95, 96	·	97	98	99	100	101 10)2 11	os
10th	104 1	105 10	06 107	1	08	109	110 1	111	112 11	3 1	14

				occi	UPANT I	NJURY	DATA				
	Source of Injury Data	Body Region	Type of Anatomic Structure	O.I.CA Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
11th			******				-				
12th						_	_				
13th						_			-		
14th	_		_								
15th	_	—	-			_			••••		
16th	-	_					_				
17th							-				
18th											
20th											
21st		-				-					
22nd		_									
23rd							_				
24th						-	_				
25th									_		

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





SOURCE OF INJURY DATA

OFFICIAL

- (1) Autopsy records with or without hospital/ medical records
- (2) Hospital/medical records other than emergency room (e.g., discharge
- Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency

UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

INJURY SOURCE

FRONT

- (01) Windshield
- (O2) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)
- (16) Driver side air bag compartment cover
- (17) Passenger side air bag compartment cover
- (18) Windshield reinforced by exterior object (specify):
- (19) Other front object (specify):

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar
- (23) Left B-pillar
- (24) Other left pillar (specify):

- (25) Left side window glass or frame
- (26) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- Right side hardware or armrest (32) Right A (A1/A2)-pillar
- (33) Right B-pillar
- (34) Other right pillar (specify):
- Right side window glass or frame
- Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar or door frame attachment point
- (43) Other restraint system component (specify):_
- (44) Head restraint system
- (45) Air bag (use codes "16" and "17" for injuries sustained from air bag compartment covers)
- (46) Other occupants (specify):
- (47) Interior loose objects
- (48) Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

OCCUPANT INJURY CLASSIFICATION

REAR

(60) Backlight (rear window)

- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

EXTERIOR of OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- Other exterior surface or tires (specify):
- (68) Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify):
- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify)
- (79) Rear surface
- (80) Undercarriage
- (R1) Time and wheels
- (82) Other exterior of other motor vehicle (specify):
- (83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE **ENVIRONMENT**

- (84) Ground
- (85) Other vehicle or object (specify)

New Jersey Barner Unknown vehicle or object

NONCONTACT INJURY

- (90) Fire in vehicle (91) Flying glass
- (92) Other noncontact injury source (specify):
- (93) Air bag exhaust gases
- (97) Injured, unknown source

INJURY SOURCE CONFIDENCE LEVEL

- Certain (1)
- Probable (2)
- Possible (3)
- Unknown

DIRECT/INDIRECT INJURY

- Direct contact injury (1)
- Indirect contact injury Noncontact injury (3)
- Injured, unknown source

Body Region

- Head
- Face Neck
- (4) Thorax
- (5) Abdomen
- (6) (7) Spine Upper Extremity
- Unspecified
- Whole Area
- (2) Vessels
- (3) Nerves
- (4) Organs (includes muscles/ ligaments)

Type of Anatomic Structure

- Skeletal (includes joints) Head - LOC
- (6) Skin

Specific Anatomic Structure

- Whole Area (02) Skin Abrasion (04) Skin - Contusion
- (06) Skin Laceration (08) Skin Avulsion
- Amputation (20) Burn
- (30) Crush (40)
- Degloving Injury NFS Trauma, other than mechanical (50)

- Head LOC (02) Length of LOC (04, 06, 08) Level of Consciousness

- Spine (02) Cervical
- (04) Thoracic (06) Lumbar
- Vessels, Nerves, Organs, Bones, Joints are assigned consecutive two digit numbers beginning with 02

Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, OO is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

Abbreviated Injury Scale

- (1)Minor injury
- Moderate injury Serious injury (3)
- (4) Severe injury
- (5) Critical injury (6) Maximum (untreatable)
- (7) Injured, unknown severity

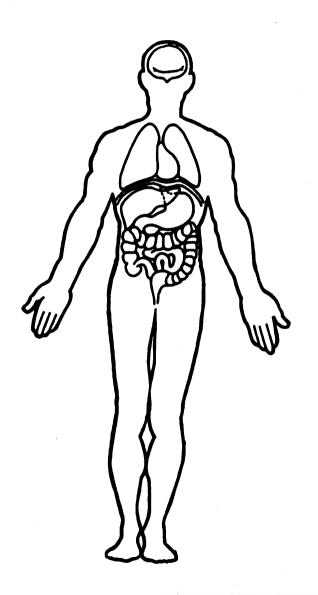
Aspect

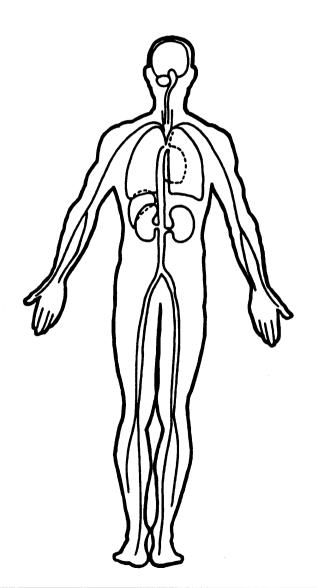
- (1) Right
- (3) Bilateral
- Central (4) Anterior
- (6) Posterior (7) Superior
- (8) Inferior (9) Unknown
- Whole region

	OFFICIAL INJURY DATA — SKELETAL INJURIES
Restrained?NoYes	OFFICIAL INJURY DATA — SKELETAL INJURIES Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)
Blood Alcohol Level (mg/dl) BAL =	
Glasgow Coma Scale Score GCSS =	
Units of Blood Given Units =	
Arterial Blood Gases pH = PO ₂ =	
PCO ₂	

OFFICIAL INJURY DATA -INTERNAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





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11137F00020012	936.0210000000000101T						
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11137F01000041	6.02 000000000981100	0200008400	0066	00000	00000	0100022	20010001100
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00000000000001							
INTERIOR VEHICLE	Vehicle: 1						
	11						
	INTRA ERROR	RS					
OR OR HATCH OR GA	TE OPENING *****	0000531 000532	2				SE SHOWS A D
	Y YOUR ZONE *****	CC0532					
2 or IVO6 equals	2 or IVO7 equals 2	CC0534					IVO5 equal 2 or IVO9 e
uals 2.	- a. a.a. aquuta L	220004		0, 1	* • • • • •	dnarp	7 OF 1009 E
0							
OCCUPANT ASSESSME	ENT Vehicle: 1 Occupant	: 1					
		11					

INTRA ERRORS

OHH1271 2 ***** TH S CASE SHOWS EJECTION WITH RESTRAINT USAGE. ****** HH1272 ***** CH HH1273 EJECTION O

93

CK YOUR DATA AND IF CORRECT, NOTIFY YOUR ZONE ******
12 is equal to 1-3 and ((MANUAL BELT USE 0A18 does HH1274 not equal 0, 01 or 99) or (AIR BAG DEPLOYMENT DA22 does not HH1275 equal 0, 4 or 9) or (AUTOMATIC BELT USE 0A45 does not equal 0, 2 HH1276 or 900.

INTER ERRORS

OAHOO61 2 If CASE ACO2(4) equals C, D, E, F, J or K, then at le AHOO62 TREATMENT OA35 should equal 3 or 4. st one

PSU11 ERROR SUMMARY SCREEN CASE 137F CURRENT VERSION: 6.02

FORM NAME	NUMBER OF DOLLAR SIGNS	NUMBER OF LEVEL 1 ERRORS	NUMBER OF LEVEL 2 ERRORS	VERSION NUMBER CONSISTENT
Accident	0	0	0	·
General Vehicle	Ö	ŏ	ő	Ÿ
Vehicle Exterior	0	Ö	ŏ	Ý
Vehicle Interior	Ó	Ö	1	Ÿ
Occupant Assesment	0	0	1	Ý
Occupant Interior	О	0	ō	Ý
Total Inter Errors		· o	1	
Total Case Errors	0	0	3	



U.S. Department of Transportation

National Highway Traffic Safety Administration

SLIDE INDEX

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary S	ampling Ur	nit Number _/	Case Number—Stratum / 37 F
Slide No.	Vehicle No.	Direction of Picture	Description of Slide Subject Matter
1-4	01	EAST	CAR ON
5-6	01	N-E	CAR SIDESWIPES HEDIAN & RIDES UP BARRIER
7-8	01	l	CAR LANDS BACK ON GROUND - DRIVER
			BRAKES CW- AT THIS POINT DSIDE
			hits barrier
9-12	01	5-E	CAR YAWS CW- force CAUSES CAR
			TO ROLL OVER 2x
13-22	01	5-E	CAR ROLLS TO FRP on wheels
23-26			LOOKING BACK THRU FRP, POI
27-60	01		V exteriors
61-62	01		VINDSHIELD (NOW THROWN IN HATCH) Vehicle interiors w) contacts noted
63-85	02		Vehicle interiors " contacts noted
	-		
			· · · · · · · · · · · · · · · · · · ·
		· · · · · · · · · · · · · · · · · · ·	

Slide No.	Vehicle No.	Direction of Picture	Description of Slide Subject Matter
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PSU 11-137F (1993) #50

























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ilable



vailable



Best Available





PSU 11-137F (1993) #74 Best Available







Available



37F (1993) #













PSU 11-137F (1993) #8

